

Appl. No.: 10/767,534
Response dated November 8, 2006
Reply to July 12, 2006 Final Office Action
Group Art Unit: 1755

Amendments to the Claims

The "Listing of Claims" replaces all prior versions of claims in the application.

Listing of Claims:

1. (Currently Amended) In a nonaqueous composition for a non-aqueous system, formulated to be applied to a substrate by spray application, the improvement wherein the composition contains an effective foam-reducing quantity of at least one base-catalyzed reaction product comprising the following reactants:

- A) at least one compound of formula I



wherein each X group is a halogen atom or one X group is a halogen atom and two X groups represent an epoxy oxygen atom, which is attached to two adjacent carbon atoms in the R¹ group to form an epoxy group, and R¹ is an alkanetriyl group containing from 3 to 10 carbon atoms; and

- B) at least one compound having the formula II



wherein R² is a substituted or unsubstituted, saturated or unsaturated, organic group having from 1 to 36 carbon atoms; X is -O-, -S-, or -NR³- where R³ is hydrogen or a C₁-C₁₈ alkyl group; each AO group is independently an ethyleneoxy, 1,2-propyleneoxy, or 1,2-butyleneoxy group, n is a number of from 0 to 200; and Y is hydrogen, or Y can be a mercapto group or an amino group or a C₁-C₆ alkylamino group in place of a terminal -OH group, provided that when Y is mercapto or an amino group or a C₁-C₆ alkylamino group, n is at least 1;

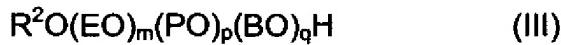
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wherein the mole ratio of the linking compound A) to B) is from 0.1:1 to 5:1,
~~and wherein the composition has a viscosity suitable for applying to a
substrate by spray application obtained by selection of the molecular weight
and quantity of the reaction product.~~

2. (Previously Presented) The composition of claim 1 wherein said mole ratio is from about 0.6:1 to about 2:1.
3. (Previously Presented) The composition of claim 1 wherein said mole ratio is from about 0.8:1 to about 1.5:1.
4. (Previously Presented) The composition of claim 1 wherein the composition contains from about 0.001 to 5% by weight of the at least one base-catalyzed reaction product.
5. (Previously Presented) The composition of claim 1 wherein the composition contains from about 0.1 to 3% by weight of the at least one base-catalyzed reaction product.
6. (Previously Presented) The composition of claim 1 wherein component A) in said reaction product is epichlorohydrin.
7. (Previously Presented) The composition of claim 1 wherein in formula II in said reaction product n is a number of from 1 to 100.
8. (Previously Presented) The composition of claim 7 wherein n is a number of from 2 to 20.
9. (Previously Presented) The composition of claim 1 wherein in component B) in said reaction product the R² group is a straight or branched chain alkyl group.
10. (Previously Presented) The composition of claim 9 wherein in component B) n is a number of from 2 to 20.

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11. (Previously Presented) The composition of claim 1 wherein component B) in said reaction product has the formula:



wherein R^2 has the meaning given in claim 1, m is a number of from 0 to 100, p is a number of from 0 to 50, and q is a number of from 0 to 50.

12. (Previously Presented) The composition of claim 10 wherein component A) in said reaction product is epichlorohydrin.
13. (Previously Presented) The composition of claim 11 wherein the mole ratio of component A) to component B) is from about 0.6:1 to 2:1.
14. (Previously Presented) The composition of claim 13 wherein said mole ratio is from about 1.0:1 to about 2:1
15. (Previously Presented) The composition of claim 13 wherein said mole ratio is from about 0.8: to about 1.5:1.
16. (Previously Presented) The composition of claim 11 wherein m is a number of from 2 to 20.
17. (Previously Presented) The composition of claim 16 wherein p and q = 0.
18. (Previously Presented) The composition of claim 11 wherein R^2 is an alkyl group having from 4 to 12 carbon atoms.
19. (Previously Presented) The composition of claim 18 wherein R^2 is a branched alkyl group.
20. (Previously Presented) The composition of claim 11 wherein R^2 is an alkyl group having from 4 to 12 carbon atoms, m is a number of from 4 to 50, and p and q = 0.
21. (Previously Presented) The composition of claim 20 wherein component B) is isodecyl alcohol · 4EO.

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22. (Currently Amended) A nonaqueous composition in a non-aqueous system, formulated to be applied to a substrate by spray application comprising

- I) at least one non-aqueous system comprising at least one nonaqueous composition; and comprising
- II) an effective foam-reducing quantity of at least one base-catalyzed reaction product comprising the following reactants:

A) at least one compound of formula I



wherein each X group is a halogen atom or one X group is a halogen atom and two X groups represent an epoxy oxygen atom, which is attached to two adjacent carbon atoms in the R¹ group to form an epoxy group, and R¹ is an alkanetriyl group containing from 3 to 10 carbon atoms; and

B) at least one compound having the formula II



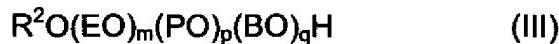
wherein R² is a substituted or unsubstituted, saturated or unsaturated, organic group having from 1 to 36 carbon atoms; X is -O-, -S-, or -NR³- where R³ is hydrogen or a C₁-C₁₈ alkyl group; each AO group is independently an ethyleneoxy, 1,2-propyleneoxy, or 1,2-butyleneoxy group, n is a number of from 0 to 200; and Y is hydrogen, or Y can be a mercapto group or an amino group or a C₁-C₆ alkylamino group in place of a terminal -OH group, provided that when Y is mercapto or an amino group or a C₁-C₆ alkylamino group, n is at least 1;

wherein the mole ratio of the linking compound A) to B) is from 0.1:1 to 5:1, and wherein the composition has a viscosity suitable for applying to a substrate by spray application obtained by selection of the molecular weight

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~~and quantity of the reaction product.~~

23. (Previously Presented) The composition of claim 22 wherein said mole ratio is from about 0.6:1 to about 2:1.
24. (Previously Presented) The composition of claim 22 wherein said mole ratio is from about 0.8:1 to about 1.5:1.
25. (Previously Presented) The composition of claim 22 wherein the composition contains from about 0.1 to 3% by weight of the at least one base-catalyzed reaction product.
26. (Previously Presented) The composition of claim 22 wherein component A) in said reaction product is epichlorohydrin.
27. (Previously Presented) The composition of claim 22 wherein in formula II in said reaction product n is a number of from 1 to 100.
28. (Previously Presented) The composition of claim 27 wherein n is a number of from 2 to 20.
29. (Previously Presented) The composition of claim 22 wherein in component B) in said reaction product the R² group is a straight or branched chain alkyl group.
30. (Previously Presented) The composition of claim 29 wherein in component B) n is a number from 2 to 20.
31. (Previously Presented) The composition of claim 1 wherein component B) in said reaction product has the formula



wherein R² has the meaning given in claim 1, m is a number of from 0 to 100, p is a number of from 0 to 50, and q is a number of from 0 to 50.

32. (Previously Presented) The composition of claim 31 wherein component A) in said reaction product is epichlorohydrin.

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33. (Cancelled).
34. (Cancelled).
35. (Currently Amended) The composition of claim 33 1 wherein said mole ratio is from about 0.8:1 to about 1.5:1 2:1.
36. (Previously Presented) The composition of claim 31 wherein m is a number of from 2 to 20.
37. (Previously Presented) The composition of claim 36 wherein p and q = 0.
38. (Previously Presented) The composition of claim 31 wherein R² is an alkyl group having from 4 to 12 carbon atoms.
39. (Previously Presented) The composition of claim 38 wherein R² is a branched alkyl group.
40. (Previously Presented) The composition of claim 31 wherein R² is an alkyl group having form 4 to 12 carbon atoms, m is a number of from 4 to 50, and p and q = 0.
41. (Previously Presented) The composition of claim 40 wherein component B) is isodecyl alcohol · 4EO.
42. (Previously Presented) The composition of claim 1 wherein the composition is a nonaqueous solvent-based paint.
43. (Previously Presented) The composition of claim 1 wherein the composition is selected from the group consisting of a varnish, a lacquer, and an enamel.
44. (Cancelled).